

### **Claim Amendments**

Claims 1-18 (canceled).

Claim 19. (new)

Portable apparatus for personal water purification, comprising:

- a) a water treatment chamber having water input/output means;
- b) a flexible sealed microdischarge array filled with UV-emissive gas at a pressure in the range 1-2 atmospheres, to emit in the range 250-260 nm, mounted in said treatment chamber in effective radiation proximity to such water in said treatment chamber;
- c) power means connected to said microdischarge array effective to cause emission of ultraviolet radiation for water purification; and
- d) means mounting said flexible microdischarge array inside said water treatment chamber to restrict water flow channels to effective purifying range of such emission.

Claim 20. (new)

Portable apparatus for personal water purification, according to Claim 19, further characterized in that the selected emissive gas is XeI.

Claim 21. (new)

Portable apparatus for personal water purification, according to Claim 20, wherein the configuration is in-line, sequenced as input, spacer, filter, said flexible microdischarge array with separation assurance means spiral-wound inside said water treatment chamber, spacer and output.

Claim 22. (new)

Portable apparatus for personal water purification, according to Claim 20, wherein said flexible microdischarge array is configured as a spiral-wound rectangular scroll (30), arranged loosely for in-line water flow between wrapped layers held at nominal separation for water flow by separation assurance means.

Claim 23. (new)

Portable apparatus for personal water purification, according to Claim 20, wherein the configuration is as a large canteen, having indicating means, interior access means, filter, and lightweight outer walls at least partially supported from collapse by said emissive gas, and interior access means.

Claim 24. (New)

A system for treating a fluid comprising:

a treatment chamber coupled to a fluid outlet, and  
at least one micro-discharge gas discharge light source wherein the  
light source is configured to expose a fluid passing through the treatment  
chamber to radiation.